

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

October 30, 2013

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-8510076, issued to NOBLE ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martir

Chief

Operator's Well No: PEN2LHS

Farm Name: KIESSLING, TERRY & HELEN

API Well Number: 47-8510076

Permit Type: Horizontal 6A Well

Date Issued: 10/30/2013

Promoting a healthy environment.

API Number: 85-10076

### **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

- 1. The Office of Oil and Gas has approved your permit application, which includes your addendum. Please be advised that the addendum is part of the terms of the well work permit, and will be enforced as such. The Office of Oil and Gas must receive a copy of all data collected, and submitted in a timely fashion, but no later than the WR35 submittal.
- 2. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
- 3. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 4. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 5. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 6. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 7. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 8. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the

API Number:	

### **PERMIT CONDITIONS**

particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

9. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

		WEL	, WORK PI	ERMIT APPLICA	HON	01	539
1) Well Operator:	Noble I	Energy,	Inc.	494501907	085	Clay	Pennsboro
2.7 Welling Learning				Operator ID	County	District	Quadrangle
2) Operator's Well	Number:	PEN2LHS			Well Pad N	ame: PEN2	
3 Elevation, curren	t ground:	1074.85	El	evation, proposed	post-consti	ruction:	1075.4
4) Well Type: (a) C	Gas		Oil	Undergroun	d Storage		
(b) I	H	hallow Iorizontal		Deep		_	
5) Existing Pad? Ye	es or No:	No					
6) Proposed Target  Target-Marcellus, Dep					d Associat	ed Pressure(s):	
7) Proposed Total V	ertical De	oth: 6	314'				
8) Formation at Total	al Vertical	Depth:	Marcellus				
9) Proposed Total N	Measured D	epth:	13693'				
10) Approximate Fr	esh Water	Strata Dep	ths: 4	54'			
11) Method to Dete	rmine Fres	h Water D	epth: _C	Closest well & Seneca T	echnology da	ta base	
12) Approximate Sa	altwater De	pths:	1244'			ant o a second a second a second	
13) Approximate Co	oal Seam D	epths:	no coal				
14) Approximate D	epth to Pos	sible Void	(coal mine,	karst, other):	none		
15) Does proposed adjacent to an ad				directly overlying and depth of mine:	or no		
16) Describe propos Drill Horizontal leg - s				epth to the Marcellus at an	estimated tota	I vertical depth of app	proximately 6314 feet.
Should we encounter a	unanticipated v	void we will inst	all a minimum of	20' of casing below the vo	old but not more	than 50' set a basket	and grout to surface.
17) Describe fractur				: rell. Stage spacing is depend	ent upon engine	ering design. P.F.C.F. Office of O	Tracturing technique will
be utilized on each sta	ge using sand	, water, and cl	nemicals.				2 228.57.
18) Total area to be				•		SEP 23 WV <sub>8</sub> Q <sub>3</sub> epar Environmenta	tment of
19) Area to be distu	irbed for w	ell pad onl		ss road (acres):	8.0		Page 1 of 3
				8-21	1)		

20)

## CASING AND TUBING PROGRAM 85 10076

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	N	LS	52	40'	40'	GTS
Fresh Water	13 3/8"	Ν	J-55	54.5	579'	579'	CTS
Coal							
Intermediate	9 5/8"	N	HCK-55 BTC	36.0	5410'	5410'	CTS
Production	5 1/2"	Ν	HCP-110 TXP BTC	20.0	13693'	13693'	Class A tail slurry to inside intermediate casing
Tubing							
Liners							

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	.25	2730	Grout to Surface	GTS
Fresh Water	13 3/8"	17.5"	.380	2730	Type 1	1.18
Coal						
Intermediate	9 5/8"	12.25"	.352	3520	Class A	1.19
Production	5 1/2"	8.75/8.5"	.361	12,640	Class A	1.27
Tubing						
Liners						

### **PACKERS**

Kind:	RECEIVED
Sizes:	Office of Oil and Gas
Depths Set:	SEP 23 2013

WV Department of
WV Department of
Page 2 of 3

21) Describe centralizer placement for each casing string.	Conductor - No centralizers used. Fresh Water/Surface -
Bow spring centralizers every three joints to surface. Intermediat	e - Bow spring
centralizers on every joint to KOP, one every third joint from KC	P to 100' from surface.
Production - Rigid bow spring every third joint from KOP to TOC, rig	id bow spring every joint to KOP.
	4 450 0 00
22) Describe all cement additives associated with each cement	
Fresh Water - 1.15% CaCl2. Coal - 1.15% CaCl2, 0.6% Gas n	nigration control additive, 0.5% fluid loss additive,
0.4% Salt tolerant dispersant, and 0.3% defoamer. Intermediate - 10.0% BV	OW NaCl, 0.2% BWOB Anti-foam, 0.3% BWOW Dispersant,
0.4% BWOB Cement retarder. Production: 2.6% Cement extender, 0	.7% Fluid Loss additive, 0.5% high temperature retarder,
0.2% friction reducer.	
23) Proposed borehole conditioning procedures. Conductor	The hole is drilled w/ air and casing is run in air. Apart from insuring
the hole is clean via air circulation at TD, there are no other conditioning p	rocedures. Fresh Water -The hole is drilled w/air and casing
is run in air. Once casing is on bottom, the hole is filled w/ KCl water and a	a minimum of one hole volume is circulated prior to pumping
cement. Coal - The hole is drilled w/air and casing is run in air. Once casing is at setting de	epth, the hole is filled w/ KCl water and a minimum of one hole volume
is circulated prior to pumping cement. Intermediate - Once surface casing is set and cemented	ntermediate hole is drilled either on air or SOBM and filled w/ KCl water once
filled w/ KCl water once drilled to TD. The well is conditioned with KCl circulation prior to	o running casing. Once casing is at setting depth, the well is circulated
a minimum of one hole volume prior to pumping cement. Production - Th	e hole is drilled with synthetic oil base mud and once at TD
e hole is circulated at a drilling pump rate for at least three hours. Once the to pulled and casing is run. Once on bottom w/ casing the hole is circulated a m	
Note: Attach additional sheets as needed	

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Office of Oil and Gas

SEP 23 2013

Environmental Protection

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Noble E	nergy, Inc.	OP Code 494501907
Watershed (HUC 10)_No	th Fork of Hughs River HUC 10 / Bonds Cree	Quadrangle Pennsboro
Elevation 1074.85	County_Ritchie	District Clay
	nore than 5,000 bbls of water to comple cuttings? Yes No ×	te the proposed well work? Yes No
5	cribe anticipated pit waste: closed loc	
		No X If so, what ml.?
Proposed Dispos	al Method For Treated Pit Wastes:	
	Reuse (at API Number at next anticipate Off Site Disposal (Supply form WW-	Number) ed well) 9 for disposal location)
Will closed loop system b	e used? yes	
Drilling medium anticipa	ted for this well? Air, freshwater, oil ba	ised, etc. Air/water based mud through intermediate string then SOBM
-If oil based, wh	at type? Synthetic, petroleum, etc. Syn	hetic
Additives to be used in di	illing medium? Please see attached lis	st
Drill cuttings disposal me	thod? Leave in pit, landfill, removed o	ffsite, etc
		sed? (cement, lime, sawdust)
-Landfill or offs	te name/permit number? Please see at	ached list
on August 1, 2005, by the provisions of the permit law or regulation can lead I certify under application form and all obtaining the informatio	e Office of Oil and Gas of the West Virgare enforceable by law. Violations of I to enforcement action.  Denalty of law that I have personally attachments thereto and that, based in, I believe that the information is tralled information, including the possibility of Name).	examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for ite, accurate, and complete. I am aware that there are significant ty of fine or imprisonment of the control of the con
Subscribed and sworn be	fore me this 22 red day of 0	WV Department of . 20 13 nvironmental Protection
My commission expires	November 23,0	

Noble Energy		11 2				
Proposed Revegetation Tre					Η	
Lime 2 to 3	Tons/acre or to cor	rect to pH _				
Fertilizer (10-20-2	20 or equivalent) 500	lbs/acr	re (500 lbs minimum	1)		
Mulch Hay or Str	raw at 2	Tons/acre				
		Seed M				
,	Amaa I			Δ.	og II	
Seed Type	Area I lbs/acre		Seed		ea II	lbs/acre
Tall Fescue	40		Tall Fescue		40	
Ladino Clover	5		Ladino Clover		5	
Attach: Drawing(s) of road, locatio	on,pit and proposed area fo	r land applica	tion.			
Plan Approved by:	David no					
Plan Approved by:	David no					
Photocopied section of inverse Plan Approved by:	David no					
Plan Approved by:	David no					
Drawing(s) of road, location Photocopied section of inverse Plan Approved by:	David no				F	
Drawing(s) of road, location  Photocopied section of invented invented in the section of invented in t	David no				F Office	RECEIVED
	Danfart		Z		Office	RECEIVED of Oil and Gas

Field Reviewed? (\_\_\_\_\_\_) Yes (\_\_\_\_\_\_\_) No

### west virginia department of environmental protection



## Water Management Plan: Primary Water Sources



WMP-01521

API/ID Number:

047-085-10076

Operator:

Noble Energy, Inc

PEN2LHS

### Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- •Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- •Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

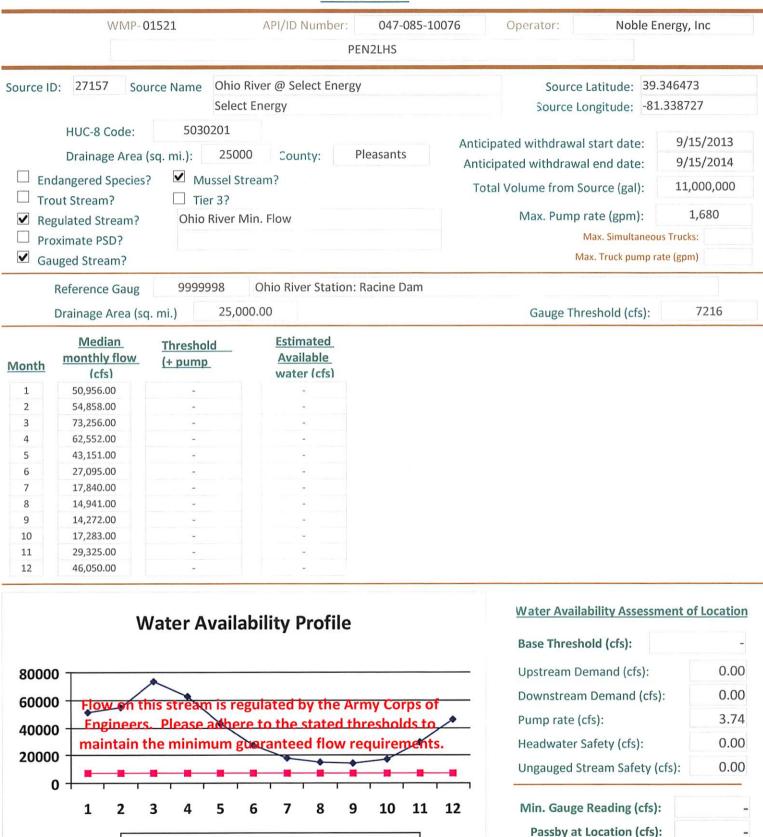
Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.



		Source	Summary			
	WMP-01521	API Number:	047-085-10	076 0	perator: N	oble Energy, Inc
			PEN2LHS			
Purchased	d Water					
<ul><li>Source</li></ul>	Ohio River @ Select	Energy		Pleasants	Owner:	Select Energy
Start Date 9/15/2013	End Date 9/15/2014	Total Volume (gal) 11,000,000	Max. daily pu 500,0		Intake Latit 39.3464	ude: Intake Longitude: -73 -81.338727
<b>✓</b> Regulated	Stream? Ohio Riv	er Min. Flow Ref. Gauge ID:	999999	8	Ohio River Station	ո։ Racine Dam
Max. Pump	rate (gpm): 1,68	Min. Gauge Readin	ng (cfs):	7,216.00	Min. Pass	by (cfs)
	DEP Comments:	Refer to the specified sta website: http://www.erh				io River forecast
<ul><li>Source</li></ul>	West Virginia Americ	can Water - Weston Water Tr	reatme	Lewis	Owner:	West Virginia American Water
Start Date 9/15/2013	End Date 9/15/2014	Total Volume (gal) 11,000,000	Max. daily pu 500,0		Intake Latit -	ude: Intake Longitude: -
<b>✓</b> Regulated	Stream? Stonewall J	ackson Dam Ref. Gauge ID:	: 306100	0 V	VEST FORK RIVER AT	ENTERPRISE, WV
Max. Pump	rate (gpm): 0	Min. Gauge Readi	ng (cfs):	170.57	Min. Pass	by (cfs)
	DEP Comments:					
<ul><li>Source</li></ul>	Glenville Utility			Gilmer	Owner:	Glenville Utility
Start Date 9/15/2013	End Date 9/15/2014	Total Volume (gal) 11,000,000	Max. daily pu		Intake Latit	ude: Intake Longitude: - ,
Regulated	l Stream? Bu	rnsville Dam Ref. Gauge ID:	: 315500	0 LITT	TLE KANAWHA RIVEI	R AT PALESTINE, WV
Max. Pump	rate (gpm): 0	Min. Gauge Readi	ng (cfs):	303.75	Min. Pass	by (cfs)
	DEP Comments:					

#### Source Detail



<sup>&</sup>quot;Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Median Monthly Flow -

			Source Deta	<u>II</u>		
	WMP-(	01521		-085-10076	Operator: Noble Er	nergy, Inc
			PEN2LHS			
ource I	D: 27158 Sou		t Virginia American Water - W t Virginia American Water	eston Water Treat	Source Latitude: -	
	HUC-8 Code:	5020002				
			02	Anticipat	ted withdrawal start date:	9/15/2013
	Drainage Area		,	Anticipa	ited withdrawal end date:	9/15/2014
☐ En	dangered Species	? Mussel S	tream?	Total	Volume from Source (gal):	11,000,000
☐ Tro	out Stream?	☐ Tier 3?		rotar	votatile from source (gar).	100 100
<b>✓</b> Re	gulated Stream?	Stonewall Ja	ackson Dam		Max. Pump rate (gpm):	0
<b>✓</b> Pro	oximate PSD?	Weston WT	P .		. Max. Simultaneous	s Trucks:
<b>✓</b> Ga	uged Stream?				Max. Truck pump ra	te (gpm)
	D-f	3061000	WEST FORK BIVER AT ENTE	DDDICE MAY		
	Reference Gaug		WEST FORK RIVER AT ENTE	ERPRISE, WV		
	Drainage Area (so	q. mi.) 75	9.00		Gauge Threshold (cfs):	234
/lonth	Median monthly flow (cfs)	Threshold (+ pump	<u>Available</u> water (cfs)		E .	
1	321.23	-	-			
2	361.67	-				
3	465.85 266.43	-				
5	273.47					
6	137.03	~				
7	88.78	-	-			
8	84.77	-	5			
9	58.98	-	-			
10	57.83 145.12	-				
11	247.76		2			
	V	Vater Availa	ability Profile		Water Availability Assessm	ent of Locatio
	-	rate: /train			Base Threshold (cfs):	
500					Upstream Demand (cfs):	24.32
400					Downstream Demand (cfs)	0.00
	Elew on the		egulated by the Army Co			
300			re to the stated thresho		Pump rate (cfs):	0.00
200	maintain t	he minimum g	uaranteed flow require	ments.	Headwater Safety (cfs):	8.08
100					Ungauged Stream Safety (c	fs): 0.00
0 -	<del>                                     </del>	T T				cont. 150
	1 2 3	4 5	6 7 8 9 10	11 12	Min. Gauge Reading (cfs):	

Median Monthly Flow — Threshold

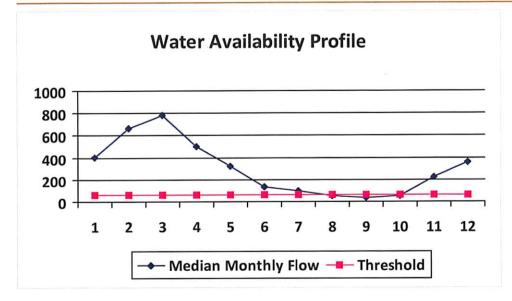
Passby at Location (cfs):

<sup>&</sup>quot;Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

### **Source Detail**

WMP-01521	API/ID Number:	047-085-10076 Operator: Noble Energy, Inc
	PE	N2LHS
Source ID: 27159 Source Name	Glenville Utility Glenville Utility	Source Latitude: -
☐ Trout Stream? ☐ Tie		Anticipated withdrawal start date: 9/15/2013 Anticipated withdrawal end date: 9/15/2014  Total Volume from Source (gal): 11,000,000  Max. Pump rate (gpm): 0  Max. Simultaneous Trucks:  Max. Truck pump rate (gpm)
Reference Gaug 31550  Drainage Area (sq. mi.)	000 LITTLE KANAWHA R 1,516.00	IVER AT PALESTINE, WV  Gauge Threshold (cfs): 243

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	407.80	77.33	331.59
2	669.98	77.33	593.76
3	785.33	77.33	709.12
4	505.51	77.33	429.29
5	324.07	77.33	247.85
6	132.12	77.33	55.90
7	99.89	77.33	23.68
8	56.28	77.33	-19.94
9	35.11	77.33	-41.11
10	52.89	77.33	-23.32
11	223.44	77.33	147.23
12	363.54	77.33	287.32



Water Availability Assessment of	of Location
Base Threshold (cfs):	61.86
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	0.00
Headwater Safety (cfs):	15.47
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	303.75
Passby at Location (cfs):	-

<sup>&</sup>quot;Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

### west virginia department of environmental protection



## Water Management Plan: Secondary Water Sources



WMP-01521 API/ID Number 047-085-10076 Operator: Noble Energy, Inc
PEN2LHS

#### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

### Lake/Reservior

Source ID:	27160	160 Source Name	Bonds Creek Site No. 1 (WV08503)			Source start date:		9/15/2013
						Source end o	late:	9/15/2014
		Source Lat:	39.316142	Source Long:	-80.98423	County	R	Ritchie
		Max. Daily Pu	rchase (gal)		Total Volu	me from Source (ga	l):	11,000,000
	DEP Co	omments: Lo	ocation also kno	own as Tracy Lak	e or Bonds Cree	k Lake		

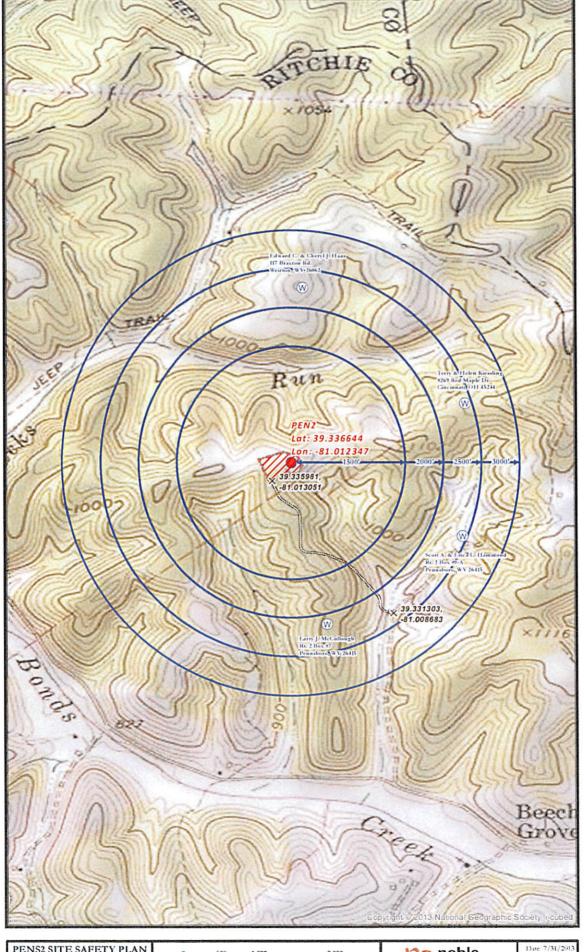
WMP-01521	API/ID Number	047-085-10076	Operator:	Noble Energy, Inc
	Р	EN2LHS		

#### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID:	27161	Source Name	FLG Tank Pad			Source start date:	9/15/201
						Source end date:	9/15/201
		Source Lat:	39.335467	Source Long:	-80.001958	County	Ritchie
		Max. Daily Pu	rchase (gal)		Total Volu	ume from Source (gal):	11,000,000
	DEP Co	mments:					
				revious water m er management	_		nce: WMP-1
					_		nce: WMP-1
sholds esta	ablished	in that plan g			_		nce: WMP-1
sholds esta d. cycled I	eblished	in that plan g			_		nce: WMP-1
sholds esta d. cycled I	eblished	in that plan go	overn this wat		_	erwise	
sholds esta d. cycled I	eblished	in that plan go	overn this wat		_	Source start date:	9/15/201
sholds esta d. cycled i	eblished	Vater Source Name	vern this wat	er management	plan unless othe	Source start date: Source end date:	9/15/201



PENS2 SITE SAFETY PLAN
- WATER WELLS PROXIMITY 
Scale 1" = 1,000'

Scale 1" = 1,000'

Scale 1" = 1,000'

Disclaimer: All data is licensed for use by Noble Energy Inc. use only.

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